

# Introduction to the 2025 NDSASP and NDAEIS

2025 FlyND | March 4, 2025





### **Project Team**





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## Agenda

1 Project Overview

2 ND Aviation System Overview

3 2025 NDSASP Update

4 2025 NDAEIS Update

5 Next Steps





#### **Project Purpose**





- Provides roadmap for long-term planning
- Guides future decision making
- Identifies system needs





#### **Update to 2015 NDAEIS**

- Documents contributions of public-use airports
- Justifies continued investment
- Helps communicate airport benefits and value



## **Project Timeline**

Virtual TAC Meeting

Regional Presentations



Fly ND Conference

	Month	2024				2025									2026										
		S	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α
Task 1	Study Design																								
Task 2	Project Management																								
Task 3	Stakeholder Engagement					<b>9</b>		*					<b>9</b>						<b>9</b>	*					
Task 4	2025 NDSASP Framework (Goals, Performance Measures, Benchmarks)																								
Task 5	Airport Classification																								
Task 6	System Inventory																								
Task 7	Activity Forecasts																								
Task 8	System Performance																								
Task 9	Issues and Industry Advancements																								
Task 10	Recommendations and Cost Estimates based on Findings																								
Task 11	Economic Impact Study																								
Task 12	2025 NDSASP and NDAEIS Final Documents																								
Task 13	Website Story Maps and GIS Development																								



#### **NDSASP-AEIS Deliverables**





New



Individual Airport Reports (65 airports)

New



Story Maps (Up to 8)





North Dakota



## **Story Maps**



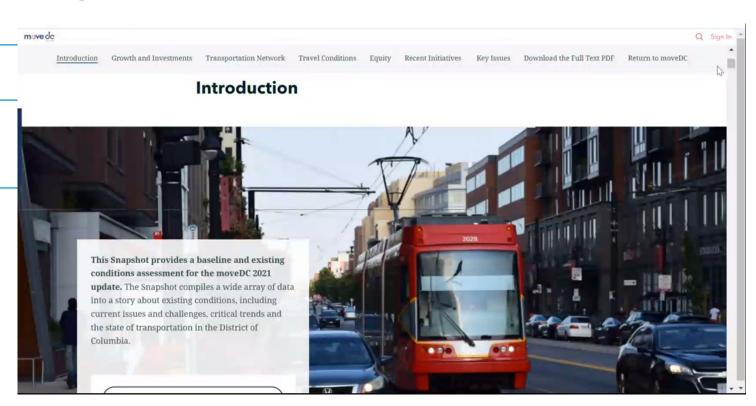
#### Web-based deliverable



Visually presents system changes



Represents several topics identified by NDAC





#### **Project Website**



https://2025ndsasp.com/



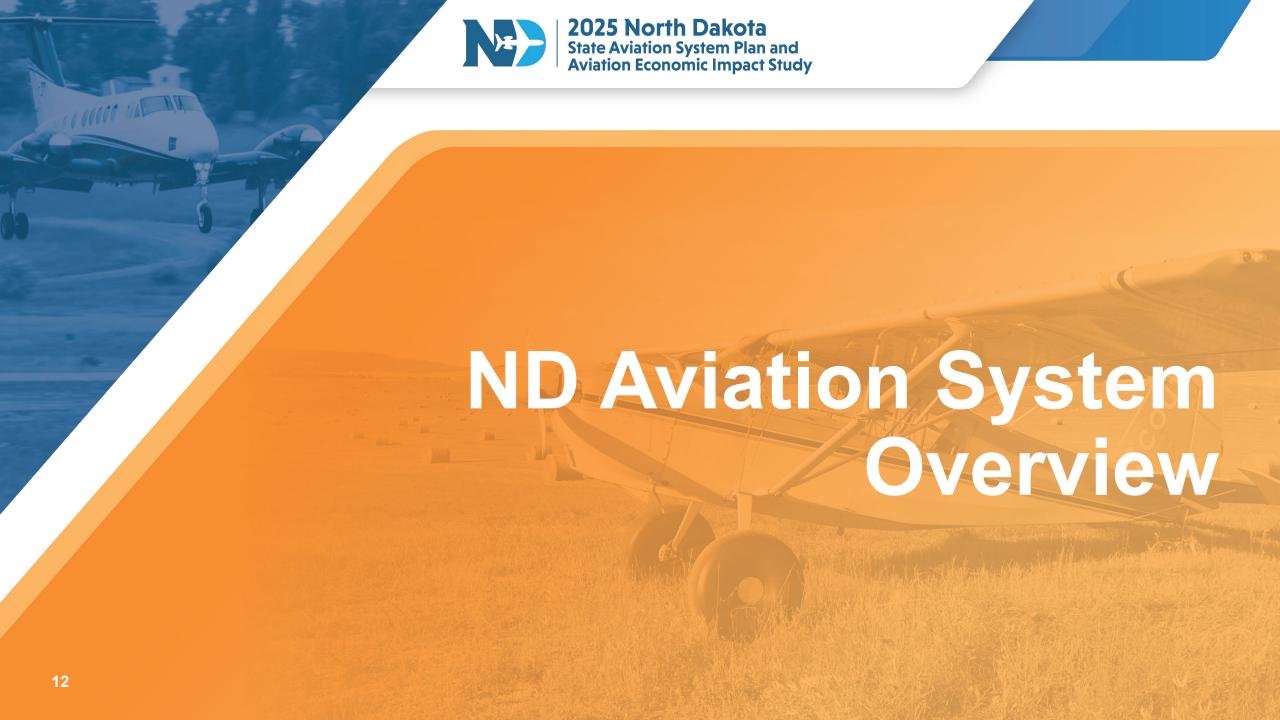




#### **Project Overview**

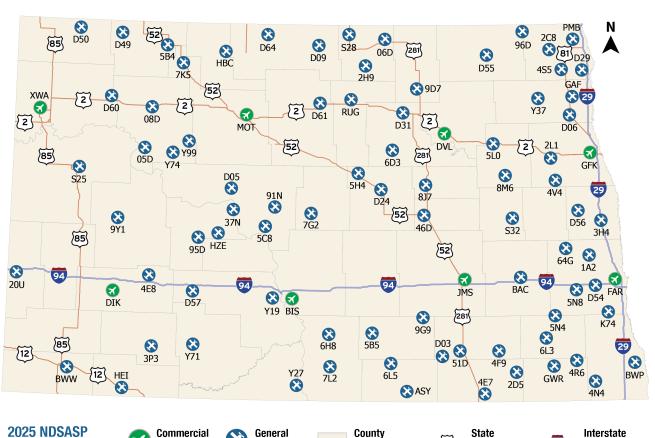
The 2025 North Dakota State Aviation System Plan (NDSASP) is an update to the 2014 NDSASP. The study is used by the North Dakota Aeronautics Commission (NDAC) as a guide for future decision making. The study will identify system needs and changes since the last study and will provide recommendations to preserve and enhance the state's 89 public-use airports.

The project will begin by establishing the 2025 NDSASP framework, which includes setting the goals and metrics that will drive the project forward. With goals and metrics established, a comprehensive system inventory task will occur, which includes a data collection effort that will involve direct coordination with airports. With a complete dataset established, airport classifications will be reviewed, activity forecasts will be developed, and the aviation system performance will be analyzed. Following the system performance task, issues and industry advancements will be evaluated, and recommendation and cost estimates will be established. Following all project tasks, the final deliverables will be submitted to the NDAC and used to make informed decisions about North Dakota's aviation system over the long-term planning horizon. As shown in the Project Process graphic below, a comprehensive stakeholder involvement effort will occur throughout the project. In addition, the 2025 North Dakota Aviation Economic Impact Study (2025 NDAEIS) will be developed in





#### Airports Included in the Study





General









#### **Aviation Activities in North Dakota**















## **System Strengths**

updated infrastructure
supported increased standard of living
connecting communities & industries
ndac flexibility
collaboration enjoyment work
business growth robust availablity strategic
fun we
lern state fun modern economic growth innovation economic growth ec impact balanced adaptable connectivity- people centralized passion economic planning community outreach investment support oriented in-person-connections locations spread across the state to create comprehensive network



## System Challenges

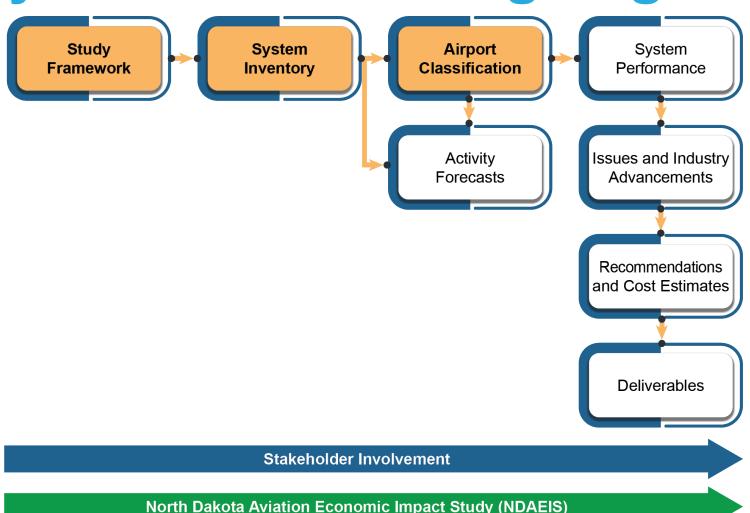
planning for future uas integration infrastructure funding flexible cost of construction condition of federal support cost inflation funding identifying volunteers federal regulation federal infrastructure federal funding federal funding lack reliance VO TKTO TE aging reliance on hubs workforce shortage infrastructure dollars public perception of understanding of value from gen pop prioritizing funding mechanics project cost inflation



## 2025 NDSASP Update



## **Study Process and Ongoing Efforts**





## **Study Framework**





### **System Goals**



Maintain a Safe Aviation System



**Enhance Quality of Life** 



**Promote Aviation System Coverage** 



**Preserve Airport Infrastructure** 



Provide Air Access to Airports



Support Aviation Education and Industry Advancement





#### **Maintain a Safe Aviation System**

Metric	Metric Type			
Percent of airports with clear approaches to all runway ends				
Percent of airports with public gatherings in the RPZs (stadiums, parks, large public or commercial buildings, parking lot, or other similar spaces) for all runway ends	Performance Measure			
Percent of airports that control RPZs through fee simple ownership or easements for all runways				
Percent of airports with roads, railroads, or structures not utilized for public gatherings in the RPZs for all runway ends	Performance Indicator			







#### **Promote Aviation System Coverage**

Metrics	Metric Type			
Percent of area and population within 90 minutes from a Commercial Service airport				
Percent of area and population within 30 minutes from a NPIAS airport				
Percent of area and population within 30 minutes from all paved public-use airports (NPIAS and Non-NPIAS)	Performance Indicator			
Percent of area and population within 30 minutes from all public-use airports (NPIAS and Non-NPIAS)				





#### **Provide Air Access to Airports**

Metrics	Metric Type		
Percent of area and population within 30 nautical miles of an airport with on-site weather reporting (AWOS/ASOS)			
Percent of area and population within 30 nautical miles of an airport with a non-precision approach			
Percent of area and population within 30 nautical miles of an airport with a vertically guided approach	Performance Measure		
Percent of airports with adequate terminal facilities to support passenger demand			
Percent of airports with available covered aircraft storage			
Percent of airports with standard runway lighting	Performance		
Percent of area and population within 50 nautical miles of an airport with Jet A fuel			
Percent of area and population within 30 nautical miles of an airport with 100LL fuel	Indicator		
Percent of NPIAS airports that have at least 95% wind coverage for all runways			





## **Enhance Quality of Life**

Metrics	Metric Type				
Percent of area and population within 60 minutes of a 5,000ft or longer runway					
Percent of airports that meet the Light Business Jet Capability criteria					
Percent of airports utilized by air cargo operators					
Percent of airports with aviation related business tenants on airport property					
Percent of airports that can meet the needs of the King Air emergency aircraft					
Percent of area and population within 30-minutes of an airport that can meet the needs of the King Air emergency aircraft (3,800ft runway, ARC B-II Small +, lighted runway, certified weather reporting)  Performance Indicator					
Percent of area and population within 30 nautical miles of an airport that supports based or transient aerial applicator operations	mulcator				
Percent of airports that provide access to mechanic services:  On site and available to the public  On-site private operation only  On-call only  None					
Percent of airports with a hospital and/or clinic within its service area					





#### **Preserve Airport Infrastructure**

Metrics	Metric Type			
Percent of airports meeting state PCI thresholds on primary runways	Performance Measure			
Percent of NPIAS airports with an adequate Airport Layout Plan				
Percent of airports that have height zoning following Part 77 guidelines adopted by a local zoning board	Performance Indicator			
Percent of airports with a local or county-wide mill levy	r enormance mulcator			
Percent of airports with non-mill levy revenue				



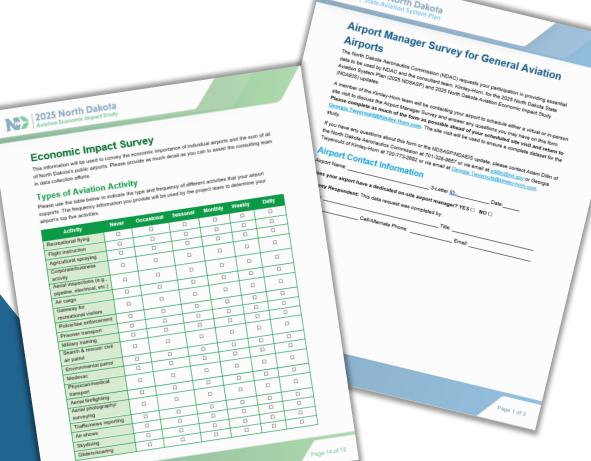


## Support Aviation Education and Industry Advancement

Metrics	Metric Type
Percent of airports that offer flight training	
Percent of area and population within 30 nautical miles of an airport that offers flight training	
Percent of airports that host annual fly-ins or other community engagement events	Performance Indicator
Percent of airports that participate in STEM activities (tours, classroom visits, etc.)	
Percent of area and population that have educational opportunities available in the community	



## **System Inventory**



#### We need your help!

- Airport Manager Surveys Distributed
  - Includes NDSASP and NDAEIS questions
- Scheduling Site Visits
  - 81 virtual site visits
  - 8 in-person site visits



#### **Airport Classifications**

- Using the 2025-2029 NPIAS
- Same Classification Methodology as 2014 NDSASP

	2025 NDSASP Classification	# of Airports
	Commercial Service	8
NPIAS Airports	Local	26
	Basic	19
Non-NPIAS Airports	Community Paved	18
Non-NEIAS Amports	Community Turf	18
	Total	89



## 2025 NDAEIS Update



#### **NDAEIS Process**

#### **Data Collection**

- On-Airport
  - Airport
     Administration
  - Tenants
- Off-Airport
  - Visitor Spending

#### Data Analysis

- Calibrate Economic Model
- Economic Modeling
- Estimation of Tax Revenues from Aviation

#### Deliverables

- Technical Plan
- Executive Summary
- Individual Airport Reports
- Fact Sheet
- GIS Story Maps







#### **Sources of Direct Economic Impact**

## **On-Airport**

**Airport Administration** 



Employment (Full and Part-Time)



Payroll (Wages and Benefits)



Operating Expenses



Capital Improvements

**Airport Business Tenants** 



Employment (Full and Part-Time)



Capital Improvements

## Off-Airport

**Visitor Spending** 



Commercial Service Visitor Spending



General Aviation Visitor Spending



#### **Measures of Economic Impact**



**Jobs** 

Total number of people employed, both full-time and part-time because of aviation



**Earnings** 

Total employment compensation, including wages and benefits, of those employed



Gross Domestic Product (GDP)

Dollar value of final goods and services produced locally because of economic activity, not including the value of intermediate goods and services used to produce the final goods and services



Output

Total expenditures
associated with
airport administration,
capital projects, tenant
sales of goods and
services, as well as
visitor spending in
North Dakota's
hospitality-related
sectors



## Categories of Economic Impact

#### **Direct Impacts**

The initial impacts occurring both on- and off-airports, involving the payroll, expenditures, and capital improvements of airports and tenants are considered direct impacts.

This also includes the spending by commercial and general aviation visitors.

#### **Multiplier Impacts**

There are two distinct impacts that occur within the broader "multiplier impacts" term. The first is "indirect impacts" which occur when a portion of direct revenues is used to purchase goods and services from other businesses within a defined region. These impacts are sometimes referred to as "supplier sales." The second is "induced impacts", which are sometimes referred to as "income respending" and occur when employees re-spend their income earned in the defined region as a part of direct and indirect impacts.

#### **Total Impacts**

Total impacts are simply the sum of the direct and multiplier impacts (induced and indirect).



#### **Supplemental NDAEIS Tasks**

- University of North Dakota Off Airport Activity & Impacts
- Benefits of Aircraft and Aerospace Manufacturing
- Survey of AAM and UAS Businesses Impacts
- **Economic Impact from Air Force Bases**
- ) Impact Losses as a Result of Workforce Development Issues





## Other Upcoming Tasks

- Study Framework
  - Post updated Chapter 1 and 2 to the Project Website for TAC review https://2025ndsasp.com/
- System Inventory
  - Continue inventory and data collection efforts
  - Draft System Inventory chapter
- Airport Classifications
  - Finalize analysis of non-NPIAS airports for potential future NPIAS inclusion
  - Draft Airport Classifications chapter
- Kick-off Activity Forecasts
- Kick-off System Performance



#### **Questions?**

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